

IN THE CLAIMS

Claims 1-8 have been previously cancelled without prejudice.

Claims 11-15 have been withdrawn by the Examiner.

Please amend claims 9-10.

Please add new claims 16-29.

Please enter the pending claims as follows:

1. – 8. (Cancelled)

9. (Currently Amended) An apparatus comprising:

a polishing pad, said polishing pad disposed over a platen;

a slurry disposed on said polishing pad;

a wafer disposed on said polishing pad and said slurry, said wafer mounted in a wafer carrier; and

a power supply ~~adapted to apply a voltage or a current as a function of time~~ between said polishing pad and said wafer; and

a computer, said computer to vary said voltage during operation of said apparatus.

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10. (Currently Amended) The apparatus of claim 9 wherein said wafer comprises a ~~metal~~ continuous and conductive surface layer.

11. – 15. (Cancelled)

16. (New) The apparatus of claim 9 wherein said computer optimizes polishing rates for different materials on said wafer by varying said voltage.

17. (New) The apparatus of claim 9 wherein said computer varies said voltage as a function of time.

18. (New) The apparatus of claim 9 wherein said computer varies said voltage as a function of temperature.

19. (New) The apparatus of claim 9 wherein said computer varies said voltage as a function of process parameter.

20. (New) The apparatus of claim 19 wherein said process parameter comprises slurry flowrate.

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21. (New) The apparatus of claim 9 wherein said computer varies said voltage as a function of tool parameter.

22. (New) The apparatus of claim 21 wherein said tool parameter comprises speed of rotation of said platen.

23. (New) The apparatus of claim 21 wherein said tool parameter comprises speed of rotation of said wafer carrier.

24. (New) The apparatus of claim 9 wherein said computer comprises feedforward control of an electrochemical process.

25. (New) The apparatus of claim 9 wherein said computer comprises feedback control of an electrochemical process.

27. (New) The apparatus of claim 9 wherein said computer comprises proportional control of said voltage.

28. (New) The apparatus of claim 9 wherein said computer comprises differential control of said voltage.

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29. (New) The apparatus of claim 9 wherein said computer comprises integral control of said voltage.

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